



# Material Safety Data Sheet

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## PHILUBE® HIGH TEMP EP GREASE (All Grades)

January 30, 1998

### PHONE NUMBERS

PHILLIPS 66 COMPANY

Emergency: (918) 661-8118

A Division of Phillips Petroleum Company

Technical Service: (800) 766-0050

Bartlesville, Oklahoma 74004

For Additional MSDSs: (918) 661-5974

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### A. Product Identification

Synonyms: Lubricant with  
Lithium additive, High Temp EP-1, High  
Temp EP-2 High  
Temp Extreme Pressure, Non-Lead grease

Chemical Name: Mixture

Chemical Family: Hydrocarbon

Chemical Formula: Mixture

CAS Reg. No.: Mixture

Product No.: 1013003(93960);  
1013007(93970)

Product and/or Components Entered on  
EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

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## B. Components

	OSHA	ACGIH	CAS
%	Ingredients		Number
By Wt.	PEL	TLV	
Complex Hydrocarbon*			
Mixture Plus Additives			NA
90-98.7	NE	NE	

Lithium Compound\* -

1.3-10

NE

NE

\* The specific chemical identity of this material is being withheld as a trade secret. It will be provided in accordance with the provisions of 29 CFR Part 1910.1200(i). In the event of a medical emergency, it will be provided to a treating physician or nurse through utilization of the above Emergency Telephone Number.

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### **C. Personal Protection Information**

Ventilation: Use adequate ventilation.

Respiratory Protection: Not generally required.

Eye Protection: Use safety glasses with side shields.

Skin Protection: Use protective

garments to prevent skin contact.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

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#### **D. Handling and Storage Precautions**

Do not get in eyes, on skin or on clothing. Do not breathe vapors, mist, fume or dust. Wear protective equipment and/or garments described

in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use only with adequate ventilation. If pressure

injected under the skin, can cause gangrene if not treated.

Store in closed container. Store in a well-ventilated area.

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## E. Reactivity Data

Stability:

Stable

Conditions to Avoid:

Not Applicable

Incompatibility (Materials to Avoid):

Oxygen and strong oxidizing or reducing agents

Hazardous Polymerization:

Will Not Occur

Conditions to Avoid:

Not Applicable

Hazardous Decomposition Products:

Oxides of carbon, nitrogen, boron,

zinc, sulfur and lithium may be

released when burned.

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## **F. Health Hazard Data**

### **Recommended Exposure Limits:**

Not Established.

### **Acute Effects of Overexposure:**

Eye: May produce moderate irritation.

Skin: May cause slight irritation. Frequent and prolonged contact with skin may produce irritation and dermatitis in some individuals.

Inhalation: May cause headache and nausea.

Ingestion: May cause irritation of the gastrointestinal tract with nausea, vomiting and abdominal pains.

**Subchronic and Chronic Effects of Overexposure:**

Lithium's use as a drug has provided valuable toxicity information. The

information provided is following ingestion or injection of lithium, however, provided for your information. Excess lithium intake can produce adverse kidney gastrointestinal tract and central nervous system

effects. Dermatitis following absorption of lithium has also been reported.

No reproductive data is available for this lithium compound. However, since it is in the family of soluble lithium salts it would be

expected

to exert similiar effects as lithium carbonate. Some studies exposing

pregnant rats and mice to lithium carbonate have reported birth defects, but only at doses that produced maternal toxicity. Studies of humans are inconclusive.

**Other Health Effects:**

Pressurized injection of product under the skin can lead to seriously inflammed tissue. If left untreated injury can become gangrenous.

**Health Hazard Categories:**

		Animal	Human	
Animal	Human			
Known Carcinogen		_____	_____	Toxic
_____	_____			

Suspect Carcinogen	_____	_____	
Corrosive			_____
_____			
Mutagen	_____	_____	
Irritant			_____
_____			
Teratogen	_____	_____	Target
Organ Toxin		<u>  X  </u>	<u>  X  </u>
Allergic Sensitizer	_____	_____	
Specify - Kidney and Nerve Toxin;			
Highly Toxic	_____	_____	
Digestive System Toxin			

**First Aid and Emergency Procedures:**

Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Skin: Wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical

attention.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Give two glasses of water and induce vomiting, only if subject is conscious. Seek medical attention.

Note to Physician: For injection injuries, immediate medical treatment is required. Physicians may call the emergency number (918) 661-8118.

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## **G. Physical Data**

Appearance:

Red viscous liquid

Odor:

Mild, Petroleum Odor

Boiling Point:

Not Available

Vapor Pressure:

Not Available

Vapor Density (Air = 1):

Not Available

Solubility in Water:

Negligible

Specific Gravity (H<sub>2</sub>O = 1):

0.93 @ 60/60F (16/16C)

Percent Volatile by Volume:

Not Available

Evaporation Rate (Butyl Acetate = 1):

Not Available

Viscosity: >

100 SUS @ 100F (37.7C)

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## H. Fire and Explosion Data

Flash Point (Method Used):

>525F (>274C) (ASTM D92, COC)

Flammable Limits (% by Volume in Air):

LEL - Not Applicable

UEL - Not Applicable

Fire Extinguishing Media:

Dry chemical, foam, or carbon dioxide

(CO2) For small localized fires,

sand or earth may be used.

Special Fire Fighting Procedures:

Evacuate area of all unnecessary

personnel. Use NIOSH/MSHA approved

self-contained breathing apparatus and

other protective equipment and/or

garments described in Section C if

conditions warrant. Water fog or spray may be used to cool exposed containers and equipment.

Fire and Explosion Hazards: Oxides of carbon, nitrogen, boron, zinc, sulfur and lithium may be released when burned.

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## **I. Spill, Leak and Disposal Procedures**

Precautions Required if Material is Released or Spilled:

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in a dry, inert material.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):

Incinerate or otherwise manage in a permitted waste management facility.

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## **J. DOT Transportation**

Shipping Name: Not Applicable

Hazard Class: Not Applicable

ID Number: Not Applicable

Packing Group: Not Applicable

Marking: Not Applicable

Label: Not Applicable

Placard: Not Applicable

Hazardous Substance/RQ: Not Applicable

Shipping Description: Not Applicable

Packaging References: Not Applicable

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## **K. RCRA Classification - Unadulterated Product as a Waste**

Prior to disposal, consult your Environmental contact to determine if TCLP (Toxicity Characteristic

Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

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## **L. Protection Required for Work on Contaminated Equipment**

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

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## **M. Hazard Classification**

This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

Combustible Liquid       Flammable  
Aerosol       Oxidizer

Compressed Gas  Explosive  
 Pyrophoric  
 Flammable Gas  Health  
Hazard (Section F)  Unstable  
 Flammable Liquid  Organic  
Peroxide  Water Reactive  
 Flammable Solid

Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

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## **N. Additional Comments**

SARA 313

As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

# NFPA 704 Hazard Codes - - - - - Signals

Least - 0  
    Health : 1  
Slight - 1  
    Flammability: 1  
Moderate - 2  
    Reactivity : 0  
High - 3  
    Special Haz.: -  
Extreme - 4

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